



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: James L. Brown
Serial No.: 09/539,735
Filed: 03/30/00
Entitled: DIAGNOSIS OF AUTOIMMUNE DISEASE

Group No.: 1644
Examiner: P. Nolan

**SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT**

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| CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)(1)(i)(A) | |
| I hereby certify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. | |
| Dated: <u>7/24/2003</u> | By: <u>[Signature]</u> Cliff Cannon-Cin |

Sir or Madam:

The citations listed below may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

Copies are attached as Tabs 1-11 to the "Amendment and Response to February 24, 2003 Office Action and Summary of Interview," which is filed herewith.

- Akamizu *et al.* "Cloning, chromosomal assignment, and regulation of the rat thyrotropin receptor: Expression of the gene is regulated by thyrotropin, agents that increase cAMP levels, and thyroid autoantibodies." *Proc. Natl. Acad. Sci. USA* 87:5677-5681 (1990);
- Saji *et al.* "Increases in cytosolic Ca⁺⁺ down regulate thyrotropin receptor gene expression by a mechanism different from the cAMP signal," *Biochem. Biophys. Res. Commun.* 176:94-101 (1991);
- Saji *et al.* "Regulation of thyrotropin receptor gene expression in rat FRTL-5 thyroid cells," *Endocrinology* 130:520-523 (1992 a);

- Saji *et al.* "Hormonal regulation of major histocompatibility complex class I genes in rat thyroid FRTL-5 cells: Thyroid-stimulating hormone induces a cAMP-mediated decrease in class I expression," Proc. Natl. Acad. Sci. USA 89:1944-1948 (1992 b);
- Ikuyama *et al.* "Characterization of the 5'-flanking region of the rat thyrotropin receptor gene," Mol. Endocrinol. 6:793-804 (1992 a);
- Ikuyama *et al.* "Role of the cyclic adenosine 3',5'-monophosphate response element in efficient expression of the rat thyrotropin receptor promoter," Mol. Endocrinol. 6:1701-1715 (1992 b);
- Shimura *et al.* "The cAMP response element in the rat thyrotropin receptor promoter," J. Biol. Chem. 268:24125-24137 (1993);
- Shimura *et al.* "Thyroid-specific expression and cyclic adenosine 3',5'-monophosphate autoregulation of the thyrotropin receptor gene involves thyroid transcription factor-1," Mol. Endocrinol. 8:1049-1069 (1994);
- Saji *et al.* "Regulation of major histocompatibility complex class I gene expression in thyroid cells," J. Biol. Chem. 272:20096-20107 (1997);
- Kirshner *et al.* "Major histocompatibility class I gene transcription in thyrocytes: a series of interacting regulatory DNA sequence elements mediate thyrotropin/cyclic adenosine 3',5'-monophosphate repression," Mol. Endocrinol. 14:82-98 (2000); and
- Brivanlou and Darnell, Jr., "Signal transduction and the control of gene expression," Science 295 813-818 2002, particularly pages 814-816.

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material

to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Signed on behalf of:

Dated: 7/24/2003

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| FORM PTO-1449 (Modified) | | U.S. Department of Commerce Patent and Trademark Office | | Attorney Docket No.: DHI-03864 | Serial No.: 09/539,735 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary) (37 CFR § 1.98(b)) | | | | Applicant: James L. Brown | |
| | | | | Filing Date: 03/30/00 | Group Art Unit: 1644 |
| OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication) | | | | | |
| | 1 | Akamizu <i>et al.</i> "Cloning, chromosomal assignment, and regulation of the rat thyrotropin receptor: Expression of the gene is regulated by thyrotropin, agents that increase cAMP levels, and thyroid autoantibodies." <i>Proc. Natl. Acad. Sci. USA</i> 87:5677-5681 (1990) | | | |
| | 2 | Saji <i>et al.</i> "Increases in cytosolic Ca ⁺⁺ down regulate thyrotropin receptor gene expression by a mechanism different from the cAMP signal," <i>Biochem. Biophys. Res. Commun.</i> 176:94-101 (1991) | | | |
| | 3 | Saji <i>et al.</i> "Regulation of thyrotropin receptor gene expression in rat FRTL-5 thyroid cells," <i>Endocrinology</i> 130:520-523 (1992 a) | | | |
| | 4 | Saji <i>et al.</i> "Hormonal regulation of major histocompatibility complex class I genes in rat thyroid FRTL-5 cells: Thyroid-stimulating hormone induces a cAMP-mediated decrease in class I expression," <i>Proc. Natl. Acad. Sci. USA</i> 89:1944-1948 (1992 b) | | | |
| | 5 | Ikuyama <i>et al.</i> "Characterization of the 5'-flanking region of the rat thyrotropin receptor gene," <i>Mol. Endocrinol.</i> 6:793-804 (1992 a) | | | |
| | 6 | Ikuyama <i>et al.</i> "Role of the cyclic adenosine 3',5'-monophosphate response element in efficient expression of the rat thyrotropin receptor promoter," <i>Mol. Endocrinol.</i> 6:1701-1715 (1992 b) | | | |
| | 7 | Shimura <i>et al.</i> "The cAMP response element in the rat thyrotropin receptor promoter," <i>J. Biol. Chem.</i> 268:24125-24137 (1993) | | | |
| | 8 | Shimura <i>et al.</i> "Thyroid-specific expression and cyclic adenosine 3',5'-monophosphate autoregulation of the thyrotropin receptor gene involves thyroid transcription factor-1," <i>Mol. Endocrinol.</i> 8:1049-1069 (1994) | | | |
| | 9 | Saji <i>et al.</i> "Regulation of major histocompatibility complex class I gene expression in thyroid cells," <i>J. Biol. Chem.</i> 272:20096-20107 (1997) | | | |
| | 10 | Kirshner <i>et al.</i> "Major histocompatibility class I gene transcription in thyrocytes: a series of interacting regulatory DNA sequence elements mediate thyrotropin/cyclic adenosine 3',5'-monophosphate repression," <i>Mol. Endocrinol.</i> 14:82-98 (2000) | | | |
| | 11 | Brivanlou and Darnell, Jr., "Signal transduction and the control of gene expression," <i>Science</i> 295 813-818 2002 | | | |
| EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | |

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